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P. 11

REMARKS

Reconsideration is requested.

The claims have been amended, without prejudice, to advance prosecution. A basis for the Amendment may be found, for example, in the paragraphs spanning page 2, penultimate line through page 3, line 5 of the specification. As noted previously, the presently claimed invention provides a method of reducing the adhesion of microorganisms to the surface to the skin and/or mucous membranes. The presently claimed method does not require the use of antibiotic, bactericidal or fungicidal agents.

The Section 102 rejection of claims 13-17 and 20-22 over Wright (U.S. Patent No. 5,547,677), is obviated by the above amendments. Reconsideration and withdrawal of the rejection are requested as Wright, to the extent it teaches a method of applying a composition to the skin and/or mucous membranes, provides a composition containing antibiotic, bactericidal or fungicidal agents.

Specifically, the compositions of Wright are "antimicrobial oil-in-water emulsions" (see; column 2, lines 45-46). The term "antimicrobial" is used by Wright to describe an ability to inactivate infectious pathogens wherein "inactivate" is further defined as killing or inhibiting growth. See, column 2, lines 55-58 of Wright.

The Examiner is urged to appreciate that the presently claimed invention does not require inactivation, as described by Wright, but rather reducing the adhesion of microorangisms to the surface of the skin and/or mucous membranes.

The applicants further note that Wright includes the use of cationic halogen-containing compounds having a C₁₂-C₁₆ chain. The pref rred compounds within this group included by Wright is cetylpyridinium chloride (CPC), cetylpyridinium bromide



(CPB) and cetyltrimethylammonium bromide (CPAB). See, column 3, lines 10-16 of Wright. Each of these compounds are known antimicrobial agents. See, page 336 of the Merck index, 12 edition, Merck and Company, Inc., Whitehouse Station, New Jersey (1996), copy attached. Accordingly, to the extent Wright may teach application of a composition to the skin and/or the mucous membranes, the composition of Wright fails to inherently or literally teach or suggest a method of reducing the adhesion of microorganisms to the surface of the skin and/or the mucous membranes in the absence of antibiotic, bactericidal or fungicidal agents, as presently claimed. Withdrawal of the Section 102 rejection of claims 13-17 and 20-22 over Wright is requested.

The Section 102 rejection of claims 13-24 over Harbeck (2001/000166) is traversed. Reconsideration and withdrawal of the rejection are requested as Harbeck discloses, at best, compositions which include borax and/or benzoin, each of which is a known antibacterial agent. See, the attached copy of a definition of borax from the website encyclopedia.com printed June 16, 2003 wherein borax is indicated as being a mild antiseptic and cleansing agent; and the attached copy of page 781 of the Merck Index defining "gum benzoin" as an antiseptic; and the attached copy of page 114 from Webster's II New Riverside university dictionary (Houghton Mifflin Company, 2 Park Street, Boston, MA 02108 (1994)), defining "antiseptic" as relating to antisepsis which is "the destruction of microorganisms that cause disease, fermentation, or putrefaction." In view of the attached, therefore the applicants respectfully submit that each of the compositions of Harbeck include at I ast an antibiotic, bactericidal or fungicidal agent and therefore application of any of the compositions according to Harbeck to skin and/or



mucous membranes would not, inherently or literally, provide a method of reducing the adhesion of microorganisms to the surface of the skin and/or mucous membranes, as presently claimed. Withdrawal of the Section 102 rejection of claims 13-24 over Harbeck is requested.

A Section 102 rejection of claims 13 and 21-24 over JP 05186328 is traversed. Reconsideration and withdrawal of the rejection are requested as the composition of the cited document includes "lower alcohol" which, arguably, includes ethanol, methanol and isopropyl alcohol. Each of these lower alcohols, and mixtures thereof, are known bactericidal agents such that the composition of JP 05186328, if applied to the skin and/or the mucous membranes, is unable to literally or inherently provide a method of reducing the adhesion of microorganisms to the surface of the skin and/or the mucous membranes in the absence of antibiotic, bactericidal or fungicidal agents. See, the attached description of chemical disinfection from the website "health.vic.gov.au/ohs/polguide/chemdis.doc" which appears to be from the Australian Government publishing service and was printed June 16, 2003, and includes a description of "alcohol" having a good bactericidal, fungicidal and mycobactericidal activity. Withdrawal of the Section 102 rejection of claims 13 and 21-24 over JP 05186328 is requested.

The Section 103 rejection of claims 13-24 over Wright in view of Harbeck should be withdrawn as the cited documents fail to teach or suggest the presently claimed invention, as described above.

Entry of the above amendments will obviate the outstanding rejections, without raising new issues requiring further search and/or consideration. No new matt r has



been added. Entry of the above amendments and withdrawal of the outstanding rejections are requested.

The claims, as amended, are submitted to be in condition for allowance and a Notice to that effect is requested.

The Examiner is requested to contact the undersigned if anything further is required in this regard.

Respectfully submitted,

NIXON & VANDERHYE P.C.

By:

Reg. No. 36,663

BJS:plb 1100 North Glebe Road, 8th Floor Arlington, VA 22201-4714

Telephone: (703) 816-4000 Facsimile: (703) 816-4100

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THE MERCK INDEX

AN ENCYCLOPEDIA OF CHEMICALS, DRUGS, AND BIOLOGICALS

TWELFTH EDITION

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Section:

Saf Practice and Environment

Sub-

Inf ction Prevention & Surveillance

Policy No.: 55.1

issue Date:

February 2001

Section:

CHEMICAL DISINFECTION

Revision

Subject:

No.:

PURPOSE AND SCOPE

The purpose of this policy is to provide NWH network staff with guidelines for the chemical disinfection of instruments and equipment.

POLICY

The Network policy on Chemical Disinfection is:

- All instruments and equipment must be cleaned prior to chemical disinfection to remove any particulate matter which may harbour infectious material
- The level of chemical disinfection required must be appropriate for the type of instrument or equipment, its clinical usage and the manufacturer's recommendations
- High level chemical disinfection should only be used when steam sterilisation is unsuitable, when low temperature chemical sterilisation is either unavailable or is not recommended by the instrument manufacturer, or when thermal disinfection is unsuitable for the device
- Glutaraldehyde formulations should be used with caution, in accordance with the manufacture's directions. Glutaraldehyde should only be used in a well-ventilated area as defined by Worksafe Australia and appropriate personal protective equipment should be wom

PROCEDURE

Disinfectant Group

Antimicrobial Activity

Other Properties/Comments

Alcohol

Good:

- bactericidal
- fungicidal
- mycobactericidal

Variable:

virucidal

Poor:

not sporicidal

Ethanol:

70 % w/w ethanol is rapid acting and dries quickly

90% w/w ethanol is useful as a virucide.

100% thanol is not an effective disinfectant.

Ethanol is less effective against non enveloped (HBV) viruses than against enveloped (HIV) viruses.

Alcoh I (isopropanol):



Effective at 60-70%v/v but has variable mycobactericidal activity. Not an effective virucide.

General properties of alcohols:

- Does not penetrate organic matter well, acts as a fixative, prior cleaning is required.
- Fiammable.
- Can be combined with other bactericidal compounds for skin disinfection.

Aldehydes

Good:

- bactericidal
- fungicidal
- virucidal
- sporicidal slow

Variable:

mycobactericidal

Ineffective:

· CJD

Highly initant.

Acts as a fixative, prior cleaning is required

Penetrates organic material slowly; not inactivated by inorganic materials.

Usually non corrosive to metals.

Buffered alkaline solutions need to be activated prior to use and have limited shelf life.

Acidic solutions more stable, but slower acting; glycolated solutions have shorter kill times.

instrument disinfectant when used for short periods (10-20 minutes).

Slow acting against atypical mycobacteria.

Chlorhexidine

Good:

- bactericidal gram positive organisms;
- less active against gram-negative organisms

Variable:

- virucidal
- fungicidal

Poor:

- not sporicidal
- not mycobactericidal

Low toxicity and irritancy.

Inactivated by organic matter, soap and anionic detergents.

Useful for skin and mucous membrane, disinfection, but is neurotoxic (must not contact middle ear) and may cause comeal damage.

Hypochlorites

Good:

bactericidal



- virucidal
- fungicidal

Variable:

- sporicidal (pH 7.6 buffer)
- mycobactericidal (5000 ppm)

Fast acting.
Inactivated in presence of organic matter at low concentrations.
Incompatible with cationic detergents.
High concentrations corrosive to some metals.
Diluted form unstable.
Decomposed by light heat and heavy metals.
Chlorine gas released when mixed with strong acids.
Carcinogenic reaction product when mixed with formaldehyde,
Useful in food preparation areas and virology laboratories.

I dine Preparations

Good:

- bactericidal
- virucidal
- fungicidal

Variable:

sporicidal

May be inactivated by organic matter.

May corrode metals e.g. aluminum.

Useful as skin disinfectant, but some preparations may cause skin reactions.

Antiseptic strength iodophors are not usually sporicidal.

Peracetic acid

Other peroxygen compounds

Good:

- bactericidal
- virucidal
- fungicidal
- sporicidal



mycobactericidal

Variable:

sporicidal

mycobactericidal
Highly irritant.
Corrosive to some metals.
Reduced activity in the presence of organic matter.
Usually contain detergent.
May be used as an instrument disinfectant if compatible.
May be used as an instrument sterilant under specified conditions if compatible.
Hydrogen peroxide and potassium, monoperoxygen sulfate have low toxicity and imitancy.

Phenolics

Good:

- bactericidal
- mycobactericidal
- fungicidal

Variable:

Virucidal

Poor:

non enveloped viruses

Avoid contact with skin/mucous membranes.
Stable in presence of organic matter.
Incompatible with cationic detergents.
Not for use on food preparation surfaces/ equipment.
Detergent usually included.
Absorbed by rubber and plastics.
Diluted form unstable.

FURTHER INFORMATION

Infection Control Service.

National Health and Medical Research Council. 1996. Infection control in the health care setting. Canberra: Australian Government Publishing Service.



Section:

Safe Practic and Environment

Policy N .:

S5.1

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(so'deem tetrebôr'at dekehi'drat) or sodium tetraborate decahydrate, chemical compound, Na $_2$ B $_4$ O $_7$ ·10H $_2$ O; sp. gr. 1.73; slightly soluble in cold water; very soluble in hot water; insoluble in acids. Borax is a colorless, monoclinic crystalline sait; it also occurs as a white powder. It readily effloresces, especially on heating. It loses all water of hydration when heated above 320 and fuses when heated above 740; a "borax bead" so formed is used in chemical analysis (see <u>bead test</u>). Borax is widely and diversely used, e.g., as a mild antiseptic, a cleansing agent, a water softener, a corrosion inhibitor for antifreeze, a flux for silver soldering, and in the manufacture of enamels, shellacs, heat-resistant glass (e.g., Pyrex), fertilizers, pharmaceuticals, and other chemicals. It is sometimes used as a preservative but is toxic if consumed in large doses. Naturally occurring borax (sometimes called tincal) is found in large deposits in the W United States (Borax Lake in Death Valley, Callf.; Nevada; and Oregon) and in the Tibet region of China. Borax can also be obtained from borate minerals such as kernite, colemanite, or ulexite. California is the chief source of borate minerals in the United States.

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antimonial • antitumor

antimorniai (intomorneal) adi. Of or containing interest.

an element (in beneficial) and Of or containing intensity.

—a. A medicine containing antimony.

—a. A medicine containing antimony of Medicine and committee of in hearty places, and in paints, semiconductors, and committee products, among number \$1; among weight \$11.75.

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an-ti-node (in'ti-nod') a. The point or region of gracest amplitude herween adjacent nodes.

en time mi an (ar'd no'm) as [Med. Lat ammomus : Ck anti- spaner - nomot law.] A member of a Christian set believing that faith alone is necessary to salvation. -an time mires still /15-00/mi=#i = 2

antinomay (in-tin's-mi) a. pl. -miss. (Lie antinomis < Gl. : mis., aguns: - nomos, law.) L. An apparent contradiction between valid principles of conclusions that seem equally necessary and mamagic. 2 A contradiction, opposition, or conflict

timovel (in'st-nov's) a A navel lacking traditional features of a work of firmon, as coherent seructure and character develop--an'timov ablat I

an-ri-nu-cie-on (in'té-nob'klé-on', -nyob'-) a. The inuparticle of

an-ti-navi-dant (in'tsôk'si-dant) a. A dicental substants that the hime condenses

an-ti-partirole (in'ti-partiral) a A minimum particle, as a pos mon, anneroma, er anuneumun, baving me same mass, avenue utetime, spin, magnitude of magnetic moment, and magnitude of electric chairs as the particle to which it corresponds but naving the opposite sum of electric charge, opposite intrinsic party, and oppoits direction of magnetic mement

and tippened (an e-parti) n. pl. ees or et (et) [tal : ami- be-fore (< Lat. ans) - parti, food < Lat parties < parties to feed.] An appetier usu including cheese, smoked mean, tah, and vegetables, served with oil and vinegus

metipartheric (in-spotherik) also an-tipartherical antipatenetic (antipatenetic) and antipatenetical (idea) and 1, Having an inherent feeling of eversion, repurance, or opposition. 2 Causing antipathy—antipathatiteably adv. antipatenetic (in-special) n. pl. ebites. (in importus < Ck. antipathaid : anti- ipaints—pathon feeling.) LA reconstitution of

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andiphonary (indibotit) a. pl -ice A bound collection of

ampaons.

amtiphtorny (in-tiffont) i., pi. -aise. L Responsive simply or channes 2 Antiphon i. 3. One that answers or othors anomer.

antiphondal (in-tiphodol) eds. 1. Of, relating to, or located on the opposite side or sides of the earth. Z Diametrically opposed.

ci-pade (in'ti-pod') a (Bick-formation from ANTOCORE) A ditest opposite.

an raprordes (laderades) pla [ME < Let < Ck < annount with the feet opposite : data, opposite - pour toot; L Two piness of remains un apposite sides of the earth, L (ring, or pl. in number).

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mittale: Ossolatz 2 very old: ACED. —en di-quar edrases a sur-cique (in-cir) adi [N. ciat annount adi] 1 Of, persuaco, or belonging to ancient times. Z. Belonging to, made in, or types of in earlier genod 3. Old-fashioned -a An object having spe value persuse of its see can I work of six or pandicials more a 100 Astu old -As -endang -endangs -endang 10 the me sheet an-tiquer (in-t'kar) n. One who trees or finishes new farm

to as to make it appear andque an tinger it of families and an election of the writer of antiquisties. Something as a relic, belonging to or dating from a

cient umes. antei-ra-chite io tan'ta-ra-kie'lk) adi. Preventuta or messing risha 4. An anumchine drug or food.

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an-ti-smog (in'te-smog. smog) ani, Counterseting or clim

anti-se-cial (in'te-c'shel) adj. I Averding the society of oth

UNIOCABLE - it Opposed to the established social order, b. Chin renzed by or engaging in behavior that violates conventional as m'ti-so'cial-iv 1fv.

anrti-spas-modrie (in thepis-mod'le) adi. Allevanne of pr ing spaces —a. An innspannodic drieg.

ung or inhubitant the build-up of state electricity.

antis-tro-pho (in-dr'ur-fe) a (Llat < Ca antisopie, 1 minutes < interpretation to turn back : 4min, back = inrephen. hack < anustrepheta, to turn back : non-back - intenheus turn.] I, The movement tollowing and in the same meter a strophe in ancient Greek choral poetry of drama, sung while a chorus moves in the opposite direction from that of the same active a L The second strates in a poem having alternating sungary in a strategy of the second strates in a poem having alternating sungary in the same and th secophilentie adv.

anci-sub-marine (In'té-sub'monta', sub'monta') adj. L'a Statute cuema submannet

an el tank (in to tingk') adi. Designed for combat agrana armor

an richter is the 6th/1-sis a. pl. am (skr) (List < C2. open non < unturchensi to oppose onno spans - general messa L Direct contrast : Oppose on the direct opposite. A a. The of aposition of sharply contrasting ideas in trianced or parallel won phrases, or grammanical arthurnics, e.g., Militan's "He for Cod ora she for Cod to aim." h. The second and contrasting part of such junisosides. A The second state of the disterns process, and the tribetive of the disterns of the theorie (-lk) - (Ulic instances & southern of the tribetive o

ANTITHESIS. | 1. Reisung to, like, or characterizes by anutheris. 2 rectly opposed. -an tisher i cally adv.

anti-comic ()A'(6-tok'sik) udi. L Countersenns a toma of post 2. Of or relating to an anticipant.

an-ti-towing (4) is in an analysis.

an-ti-towing (4) is the the interpretation of the i nim containing unitaxine.

winds of the tropics, which become the vesterily winds of the midanti-truet : in therist') adi. Opposing or regulating trusts, and

ar similar ausmess monopolites. an eti-etu-mor (in fi-(60'char, 4760') also an-et-eu-mor (-mar-si) Jul. Anticancer.

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0-395-37928-6 [high school edition]

Manufactured in the United States of America



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Con monium Bromide

Crystals from methanol, meits over a range of 200-280. Hydrochioride. CryH₂₂NO₂HCl. DV-1006, Neuer. Crystals from methanol/other, mp 218-240.

THERAP CAT: Anniulcerative.

2068. Cetrimonium Bromide. N.N.N-Trimethyl-1-heta-decanaminium bromide: heradecyltrimethylammonium brodecanaminium bromide: hexadecyltrimethylanmonium bromide: extyltrimethylanmonium bromide: Brottat: Cetabi Getavlon: Cetylamine: C.T.A.B.: Lissolamine V: Micol: Cuamonium. C₁₉H₄BrN; mol wr 164.45. C 62.52% H 11.62%. Br 21.92%. N 3.84%. [CH₃(CH₂)₁₉N(CH₃)₃Br. Prepd from cetyl bromide and trimethylamine: Sheiton et di. J. Am. Chem. Soc. 68, 753 (1946). Toxicity and pharmacology: B. Isomaa, K. Bjondahl. Acta Pharmacol. Toxicol. 7, 17 (1980) cology: B. (se 47, 17 (1980).

Crystals, mp 237-243°. Soluble in about 10 parts water. Crystals, mp 237-243°. Soluble in action. Practically insoling other, benzene. Stable in seid soln. LO₂₀ in muce rats (ang/kg): 32.0, 44.0 i.v. (Isomaa, Sjondahi).

p-Toluenesulfonate analog, CaHaNO3S, cetrimonium

iosylate, Ceaus.

Note: Cetrimide is a mixture consisting chiefly of tetraNote: Cetrimide is a mixture consisting chiefly of tetratetrapitrimethylammonium bromide together with similer amounts of dodecyltrimethylammonium bromide and cetri-

monium bromide. USE: As cationic detergent and antiseptic; as laboratory

رجع وحداد.

THERAP CAT: Antiseptic (topical).
THERAP CAT: (VET): Antiseptic, elemning agent.

Cerrimonium Stearate, N.N.N-Trimethyl-1-hexa deconaminium octoderanoate: hezadecyltrimethylammonium seerate: cetyltrimethylammonium stearate: trimethylammonium desylammonium steatrate: Arquad 16 steatrate: Dynafied Crylammonium s

Solid, mp 142-147. Practically insol in water, alcohol. Solid, mp 142-147. Practically insol in water alcohol. Note: The commercial product, a waxy solid, also contains other alkyltrimethylammonium stemates, since the hesadecyl chain is derived from soybene fatty acids.

2070. Cetyl Alcohol. 1-Hexadecanois ethal: ethal: paimityl alcohol. C₁₁H₂₀O; mol wt 242.45. C 79.27%. H 14.14%. O 6.60%. CH₂(CH₂)₁CH₂OH. Oh. Discovered by 14.14%. Obsained from spermaceri by caponification: Spada. Cavioli. Farm. Sci. e Te. (Pavia) 7, 435 (1952). C.t. 47, 391c (1953). Prepri from palmitoyl chloride - NaBH₂: Caikin. Brown. J. Am. Chem. Sci. 71. 122 (1949); from methylthiopalmicate - Raney Nii: Ruzicka. Prelog. U.S. pat. 3.809,171 (1950 to Ciba): from hexadecyl bromide: Levine. Clippinger. U.S. pat. 3.018,308 (1962 to California Res. Carp.).

White crystals. d 0.811. mp.49°. bp 344°. bp₁₃ 190°. a₀- 1.4283. Practically insol in water. Sol in alcohol. chloroform. ether.

form. other

Note: The hexadecyl alcohol developed by Esso Res. & Eng. Co. for cosmetics is a liquid, primary, branched chain. Co. sicohol, made up of an array of isomeric compds maintained in constant proportion by a complex manufacturing process (not from spermacent): Edman. Lowden. Drug Cusmet. Ind. 93, 531 (Nov. 1963). Liquid. d. 0.342. bps. 195-205°. Froezes at < -60°. Miscible with most alcohols. glycols, esters, ketones, cosmetic oils and aromatics, miscible with water.

In cosmetics as emollicut, emulsion modifier, coupling agent. Pharmaceutic aid (emulsifying and suffering agent).

Ceryldimethylethylammonium Bromide. yl.N.N-dimethyl-1-hezadecanaminium bromide ahribeza-decyldimethylammonium bromide ethyl cetab; CDA; Am-decyldimethylammonium bromide ethyl cetab; CDA; Am-monyx DME; Bretol. C₂H₄BrN; mol wt 178,48. C

Cationic ger 63.47%, H 11.72%, Br 21.11%, N 3.70%. dai desergent. Prepn and antibacterial activity: R. S. S. ton et al. J. Am. Chem. Soc. 68, 753 (1946).

White powder, mp 178-186'. Soluble in wa white powder, mp 1/3-180. Shituble in water, all slightly sol in chloroform, benzene, ether. LD ordinaries soo mg/kg, RTBCS Vol. 1, R. J. Lewis, R. L. Tenger, 1979) p 107.

USE: Disinfectant; laboratory reagent.

THERAP CAT (VET): Antiseptic (topical).

deepl estern 1-heradecanol lociate: Isonic poid catyl estern to soid heundecyl estern Ceraphyl 28. C., Hagh; mask its soid heundecyl estern Ceraphyl 28. C., Hagh; mask its soid heundecyl estern Ceraphyl 28. C., Hagh; mask its soid heundecyl estern Ceraphyl 28. C., Hagh; mask its soid preparation; Rehberg, Marion, J. Am. C. Soe 77, 1918 (1950). 2072 Cetyl Lacrate. 2-Hydroxypropanota acid l

Waxy solid mp 41°, bp4, 132°; bp, 170°; bp1, 219. 1.4410: 18 1.4370. Non-ionic emollient. To improve feel and texts

cosmetic and pharmaceutical prepas. 1073. Cetyl Paimitate. Hexadecanuic acid has ever palmita acid hexadecyl ester; hexadecyl palmitate. CH₂(CH₂)₁CO₂CO₂CH₃(CH₂)₂CO₃CO₄CH₃(CH₃)₄CO₅CO₄CH₃(CH₃)₄CO₅CO₄CH₃(CH₃)₄CO₅CH₃ Nocardia talmonicolor: Davis, U.S. pat. 3,169,099 (196 Socony Mobil Oil).

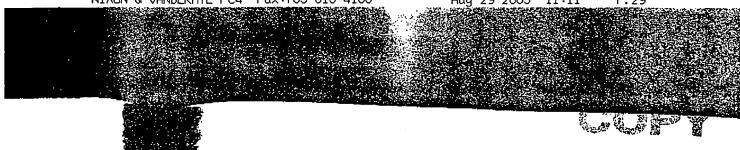
Monoclinic leaflets, mp 54°. d 0,989. 78° 1,4398. rically insol in water. Soi in abs ale, ether.

2074. Carylpyridinium Caloride. 1-Heradecypyriam chloride: Ceaptyn: Cepacoli. Dobendan: Medium chloride: Ceaptyn: Cepacoli. Dobendan: Medium chloride: Perstacin: Pyrisept. C., H., Cl.N.; mol wt 139.78. [Additional control of the co

Monohydrate. Halses. White powder, mp 77-87. It sol in water, alcohol, shloroiorm; very slightly sol is one, ether. pH (1% aq soln): 6.0 to 7.0. Surface of the first of the f

uses Pharmaceutic aid (preservative). THERAP CAT: Antiseptici disinfectant.
THERAP CAT (VET): Topical antiseptici disinfectant

2079. Cevadine. [33(2), Io. 1631-1,9-Spoxycar 12.14.16.17.20-heptol J.-12-methyl-J-butenoates; ver C₂H₂NO₂ mol wt 591.74. C 54.95%, H 3.35% N O 24.33%. From seeds of Schoenocaulan officinals O 14.13%. From seeds of Schoenocaulan officinals (S. Cham.) A. Gray (Sabadilla officinarum Brandis Ceae: Poetsch et al. J. Am. Pharm. Assoc. 38. 5236. Ringel: ibid. 45. 433 (1956). Evaluation as instance. Link et al. J. Biol. Chem. 159. 517 (1945). Ikawa. Link et al. J. Biol. Chem. 159. 517 (1945). Iture: Rupochan. Alfonso. ibid. 49. 232 (1960). rure: Rupochan. Alfonso. ibid. 49. 232 (1960). study: Swiss. Bauer. Proc. Soc. Exp. Bid. Med. (1951). Review: Wintersteiner in Graft. Estays chemistry (Wiley. New York. 1956) pp. 308-321. (1951). Review: Winterstaner in Graff. Est. chemistry (Wiley. New York. 1950) pp 308-321.



Gum Tragacanth

4600

hydrate, C₁₀H₁₂N₂O₃PN₂ B² omp at about 250°. Char c absorbancy): 13.7 × 10² ter at 25 about 25 g/100 men acetone, ether. sit as flavor intensifier. like lutamate. Said to be more a

rincipal polysacchande fra manpal polysaudamine ite Tyamopsis tetragonaloba (L.S. Vhistler, J. Am. Chem. Soc. istler, Durso, ibid. 74, 3(4); s. Kurath. J. Polymer Sci. s. Deuci et al. Chimia 8, 64 (19)

). Sol in cold water, iterial, mp 226-227. Can be can be clongated 350%. at develop crystallinity. aper industry.

Quar flour: gum cyamor V-7-E: Jaguar: Decorps (dol wt about 220.000. The uis teiragonoloous (L.) Tank ated in India as livestock 85%) of guar flour is called ir chains of (1-4)-d-0-min galactopyranosyl units attend of D-galactore to D-manager D. J. A. Jenkins lism: ; on glucose and lipid level treets: U. Smith, G. Holes) 45. 1 (1982); on recoil in er al. Blomed. Res. 5. 22. patients with non-insulin or et al., Am. J. Clin. Numbers 3. L. Graham et al., 1981). Comprehensive 1981). Comprehensive the chery. The Chemistry of the d. New York. 1959) 527 fustrial Gums. R. L. Wall York, 2nd ed., 1973) p 30 Completely sol in conin oils, greases, hydro sins are tasteless, odorle gray color, and neutral averted to a get by small are neutral. Cf. A Cy Available Guar Guardineer. times the thickening poer ilueca. Drug Standards female rats (g/kg): 7.3%

ti as a protective collective ming agent for cheese u a binding and disinte in pharmaceutical idly ms. lottons, creams, " a flocculant, as a files nagulant aid. et to diet, insulia of

an B. N-Ethyl-IV-(4-II4-)]phenyl]phenylmethyla

1-yildenef-3-sulfobenzementhanaminium inner inner selle C.I. Acid Green 3: C.I. Food Green 1: C.I. Acid Green 3: C.I. Food Green 1: C.I. 42085. C.JH₃₃N₁NaO₂S₂ moi wi 690,82. (4.17%. H 5.117%. N 4.067%. Ns 1.317%. O 13.907%. S 1.37%. H 5.117%. N 4.067%. Ns 1.317%. O 13.907%. S 1.37%. Jones et al., A sens. Offic. Agr. Chem. 38, C. 197, 30 (1964): W. H. Hansen et al., Food Cosmet. 4, 389 (1966). Sen also: Calcus Index vol. 4 (3rd 1971) o 4382. (1385. p 4385.

dark green powder, or a bright, crystalline solid. to a green soin which becomes brownish-vellow The water to a green soin which becomes brownish-yellow with of HCl and blackish-green with NaOH. An excess with description of Hcl and blackish-green with NaOH. An excess label according to the soin. Sparingly soil in alcoholt it with in coned H₂SO, to a yellow soin which, when distribution turns first yellowish-red, then green. LD₂₀ is past: > 2 g/kg (Lu. Lavalle).

The limited use as a dye for silk and wool fabrics; as

Limited use as a dye for silk and wool fabrics; as the stain. Delisted by PDA in 1966 for use in foods.

B & 17% O 57.09%. Prepd as the sodium and by of sodium Bit by of sodium Bucuronate with sodium amalgam in modium: Fischer, Piloty, Ben. 24, 525 (1891): from acid y-factone: Reborst, Naumana, ibid. 77, 24

(10 min) \rightarrow -18.6° (15 days). The tree acid lectore spontaneously. pK (257: 1.63, sett. C₆H₁₁NgO₂, crystals. [a]²⁰ -11.5°. Sol in

Mit. C₂(C₁H₁₁O₋)₂ [a]H - 14.45' (c = 1.73), from an soln by alc.

t-Galonie Acid. Xylosecarboxylic acid. C.H. 196.16. C 16.74%. H 6.17%. O 57.09%. Prepd for and HCN followed by hydrolysis of the nitrate. Stahel. Ber. 24, 129 (1891). Preps from 0-2013. Ger. pat. 618,907 (1935 to Hoffmann-La Som L-gulonolactones. Ishidate et al. Chem. sid: Ger. pat. 618,007 (1933 to monthson. L-guionolactone: fahidate et al., Chem. 13, 173 (1965).

as the lactone on evapor of an 24 tolo.

att. [a]B - [2.7 (c -a 9). Freely sol in water.

Calose. C₄H₁₂O₂ mot we 180.16. C 40.00%. Of the princetone o

Stahel, Ber. 24, 532 (1891); van Ekenstein, Blanksma, Rec. Trav. Chim. 27, 3 (1908). Alternate synthesis: Meyer zu Reckendorf, Angew. Chem. Int. Ed. 6, 177 (1967); idem. Methods Carbohyd. Chem. 6, 129 (1972); R. Köster et al. Angew. Chem. Int. Ed. 19, 547 (1980).

Syrup. Sweet lasta. [a] ~ 20.4°. Sol in water, slight sol in alcohol. Not fermentable by yeast.

4607. i-Galose, C.H.;O.; mol wt 180.16. C 40.00%, 46.07%, 5. C. Galose, C.H.;O.; mol wt 180.16. C 40.00%, 46.71%, 0.53.18%. Prepd by sodium amaigam reduction of an acid soin of the y-lactone of i-guident acid: Fischer, Piloty, Ber. 24, 526 (1891). See also van Ekenstein. Blanksma, Rec. Trov. Chim. 37, 3 (1908): Levene. LaForge, J. Biol. Chim. 20, 430 (1915):, Talem. Rec. Trov. Chim. 44, 891 (1925): Isbell, J. Am. Chem. Soc. 38, 2167 (1933). Synthesis from D-mannosc: Evans, Partish. Carbohyd. Rez. 29, 159 (1973): from 0-glucose: D. K. Minster, S. M. Hecht. J. Org. Chem. 43, 1987 (1978).

Syrup. (a)8° -61.6°. (a)0 >21.3° (c = 4.58) (5 vans. Parish). Freely sol in water slightly sol in alcohol. Not farmentable by year.

4608. Gum Benzoin. Resin benzoln: resin benjamin: gum benjamin. Balsamus cesin from Styrax benzoin Dryand. known as Sumatra benzoin, or from S. tonkinenus. (Pierre) Craib. Styrocaceae, or other species of Styrax known as Siam benzoin. Habit. Thailand, Cambodia. S. Vietnam. Sumetra, Java, and Sunda Islands. Constit. Ethereal oil. free and combined benzoic and cinnamic acids up to 39%, vanillin, conifery) benzuase, resin (a mixture of benzoresinol vanillar, conferyl benzame, resin (a mixture of benzoremnol and benzoremnolannol) esterified with benzoic acid, styroi, styrosin. Not less than 90% of Siam and out less than 75% of Sumatra benzoic is sol in ale (U.S.P.). Ref. Reinitzer, Arch. Pharm. 264, 131 (1926); Brans. Pharm. Weekbl. 73, 374 (1936); Freudenberg, Bitther. Ser. 83, 600 (1950). USS; Preserving cluthents: preparing catural benzoic acid: for fumigating castilles: in perfumery and cosmetics.

acid; for furnigating pastilles: in perfumery and cosmetics. Topical protectant.

THERAP CAT (VET): Tracture is used topically as an antiseptic and to promote healing; as an inhalant for broachitis. and craily as an experiorant.

4609. Gam Trugacanth. Tragacanth. Moi we about 340,000. The dried summy exudation from Arragolus summifer Labill. (white gavan) or other Asiatic species of Asregallus. Leguminosce. found largely in tran, also in Asia Minor and in Syria. When mixed with water gives a soluble fraction, as a hydrosol, called tragacanthin which is a complex mixture of polysaccharides containing 0-galacturonic acid, other sugars, and traces of starth and cellulose. The insoluble fraction swells to a set and ensure of 60.70%. acid. other sugars, and traces of starch and cellulose. The insoluble fraction swells to a 3el and consists of 60-70% baseorin. 4n Structural studies: Norman. Blochem. J. 25, 200 (1931): James. Smith. J. Chem. Soc. 1943, 739, 749; Aspinall. Baillie, ibid. 1963, 1702, 1714. Reviews Beach, in Natural Plant Hydrocalloids. Advances in Chemistry Series 11 (A.C.S., Washington, 1934) pp. 18-14; Meer et al. in Industrial Gumz, R. L. Whistler, Ed. (Academic Press, New York. 2nd ed., 1973) pp. 189-199. Book: F. Smith. R. Montgomery, The Chemistry of Plant Gums and Muellages (Reinhold, New York, 1959) 627 pp.

Odorless. Insipid, muellaginous tasts. Acid reaction.

Odorless. Insipid, mucilaginous taste. Acid reaction. One gram requires 0.9 ml 0.1/V N8OH for neutralization to phenolophthalen: Cabel, J. Am. Pharm. Azoc. 33, 141 (1934). Viscosity of tragaranth muchages is reduced by adding and alterit to the control of adding acid, alkali, and NaCl particularly if the munlage is heated: Mantell. The Water-Soluble Gums (New York.

Consult the Name Index before using this section.